AUTHOR INDEX

1958

Aizerman, M. A., and F. R. Gantmakher. On the Stability of Periodic Regimens in Nonlinear Systems with Piecewise Linear Characteristics - 593.

Amiantov, I. N., and V. I. Tikhonov. The Influence of Fluctuations on the Operation of an Automatic Range-Finder - 318.

Andreev, N. I. A Theory for Determining Optimum Dynamic Systems - 1.

Artiukhin, A. Ia., and V. Z. Khanin. A Single-Cycle Magnetic Shift Register - 957.

Atsukovskii, V. A. Logarithmic Method of Plotting Real Frequency Response of an Automatic Control Systems - 1045.

Aven, O. I., S. M. Domanitskii and Io. M. Pul'er. A Linear Induction Potentiometer for Industrial Use - 261.

Batkov, A. M. The Problem of Synthesizing Linear Dynamic Systems with Variable Parameters - 42.

Berkman, R. Ia. Phase Detector for Multiple Frequencies - 355.

Boiarchenkov, M. A., V. S. Volodin, F. I. Kerbnikov, G. D. Kozlov, G. V. Subbotina and I. S. Trefilova. All-Union Conference on Magnetic Elements in Automation, Remote Control,, and Computing Technology - 602.

Boiarinov, V. S.,and N. N. Leonov. On the Theory of One-Relay Systems - 103.

Brik, V. A., and S. A. Ginzburg. An Analog Computer Realizing Conformal Mapping for an n-th Order Polynomial - 640.

Burdenkov, G. V., Telemetering Systems with Pulse-Code Modulation - 49.

Cherepanov, A. I. Improving the Quality of Two-Position Control - 464.

Chernyshev, V. I., see Dmitriev, V. N. - 4.

Chugin, Iu. I. Optimal Frequency Deviation in One-Channel Telemetering System - 339.

Dekabrun, I. E. Conference on Electrical Contacts - 85

Demeshin, V. P. Electric Methods of Frequency Control for Stable RC-Generators - 671.

Dmitriev, V. N., and V. I. Chernyshev. Calculation of Time Characteristics of Pneumatic Flow Chambers - 4.

Domanitskii, S. M., see Aven, O. I. - 261.

Druzhinin, V. G. On the Number of Reserve Sections - 1035.

Dvoretskii, V. M. Determination of the External Characteristic and Calculation of Parameters of a Hydraulic Compensation Regulating Unit -989.

Ermakov, S. S., and E. M. Esipovich, A Way of Forming Transfer Functions of Sampled-Data Control Systems with Extrapolating Devices - 395.

Esipovich, E. M., see Ermakov, S. S. - 395.

Fan,Chun-Wui. Analysis of Properties and Synthesis of Automatic Control Systems with Lag - 187.

Fan,Chun-Wui. Concerning a Method for Analyzing Sampled-Data Systems - 288.

Fan, Chun-Wui. On Servo Systems Containing Two Pulse Elements with Unequal Repetition Periods - 897.

Fel'dbaum,A. A. Automatic Optimalizer - 718.

Fel'dbaum, A. A., see Velershtein, R. A. - 808.

Fitsner, L. N. Choice of a Power Unit for an Optimum Automatic Control System - 3.

Gantmakher, F. R., see Aizerman, M. A. - 593.

Ginzburg, S. A., see Brik, V. A. - 640.

Glazenko, T. A. Some Problems in the Design of an Asynchronous Clutch with a Monolithic Rotor - 783.

Gorskaia, N. S. The Influence of Linear Zones and Regions of Saturation on the Dynamics of Two-State Servomechanisms- - 413.

Gorskaia, N. S. Dynamics of a Relay-Type Electric Servomechanism with a Load Varying Proportionally to the Motion - 533.

Gorskii, V. V. Electromechanical Calculating Device - 442.

Gusev. ,L. A. Determination of Periodic Behavior of Automatic Control Systems Containing a Nonlinear Element with Broken-Line Characteristic - 911.

Iakovlev, S. M., The Theory of Structure of Combiner Mechanisms - 214.

Iakovlev, V. M., see Vertsaizer, A. L. - 85.

Iarmol'chuk, G. G. Contactless Determination of Specific Electrical Resitance - 250.

Il'in, V. A., and K. P. Kurdiukov. Frequency Methods of Remote Control for Distributed Objects - 167.

Il'in, V. A., and A. I. Novikov. New Principles of Constructing Telemetry Systems with Pulse-Time and Pulse-Width Modulation - 741.

Ioanin, G. Synthesis of Step-By-Step Selector Circuits - 835.

Ivlichev, Iu. I., and E. M. Nadzhafov. A Universal Pneumatic Multiplier-Divider and a Square-Root Extractor - 977.

Kadymov, Ia. B. Coordination Conference on an Automatic Electrical Actuator with a Self-Contained Supply - 791.

Kaluzhnikov, N. A. The Calculation of a Choke Magnetic Amplifier Connected to a Single-Phase Bridge Rectifier - 231.

Kampe-Nemm, A. A. The Application of A Thermoelectric Proportional-Plus-Integral Corrective Device for Improvement of Two-Position Temperature Control - 461.

Karandeev, K. B. and L. A. Sinitskii. Selectivity of Rectifying Measuring Devices - 869.

Kardashov, A. A., and L. V. Karniushin. Determination of System Parameters from Experimental Frequency Characteristics - 327.

Karniushin, L. V., see Kardashov. A. A. - 327.

Kashirin, V. A., and G. A. Shastova. Noise Stability of Telemetry Signal Transmission on Channels with Noise Fluctuations - 746.

Kerbnikov, F. I., see Boiarchenkov, M. A. - 602

Kerbnikov, F. I., and M. A. Rozenblat. Magnetic Modulators with Perpendicularly Superposed Magnetic Fields - 819.

Khanin, V. Z., see Artiukhin. A. Ia. - 957.

Kilin, F. M. Transient and Steady-State Processes in an Automatic Range Indicator. Part. I. Description of the Device's Functioning and Use of the Apparatus of Step Functions in the Analysis of Indicator Processes - 881.

Kneller, V. Iu. An ac Bridge with Self-Balancing in Two Parameters - 156.

Kochinev, Iu. G. A Selective Low-Frequency RC-Amplifier as a Control System Element - 349.

Kol'tsov and L. F. Kulikovskii. Telemetering Compensation Device for Linear Transference - 274.

Kopal-Gora, P. N. Concerning Some Properties of Ferromagnetic Clutches - 361.

Kozlov, G. D. see Boiarchenkov, M. A. - 602.

Krassov, I. M. and B. G. Turbin. Concerning a Possibility of Determining an Axial Hydrodynamic Force in a Valve - 210.

Kreimerman, M. M. Determination of Parameters for Corrective Devices in Linear Servosystems Using Given Generalized Parameters - 124.

Krug, E. K., and O. M. Minina. Optimal Transients in an Automatic Control System Having a Bounded Regulator Unit - 8.

Kulikov., V. R. A Method of Analyzing and Calculating Transient Processes in Automatic Control of Generator Excitation by Means of a Magnetic Amplifier - 556.

Kulikovskii, L. F., see Kol'tsov, A. A. - 274.

Kupershmidt, Ia. A. Coding and Decoding Devices in Pulse-Code Telemetering Systems - 858.

Kurakin, K. I. An Analytical Method of Synthesis of Linear Control Systems in the Presence of Interference and with a Specified Dynamic Accuracy - 402.

Kurdiukov, K. P., see Il'in, V. A. - 167.

Kurdiukov., K. P. Circular Transmission of Remote Control Signals with a Combinatorial Method of Choice - 450.

Kuz'min, L. P. Graphico-Analytic Method for Determining Relay System Characteristics - 277.

Kuznetsov, S. M. The Probability of Defective Elements in Automatic Control Systems -1023.

Lazarev, V. G., and Iu. L. Sagalovich, Concerning One Type of Commutation Circuit - 457.

Leonov, N. N., see Boiarinov, V. S. - 103.

Letov, A. M., and B. N. Naumov. The International Federation of Automatic Control (IFAC) -179.

Lipman, R. A., see Varpakhovskii, F. L. - 1004.

Makarov, I. M., and N. S. Shumilovskii. National Conference at Bucharest on the Question of Automation of Production - 487.

Matiukhin, N. Ia. Linear Transformations of Binary Codes - 759.

Meerov, M. V. Synthesis of High-Speed Automatic Control System Structures - 599.

Mekler, Ia. I. Simplified Algebraic Synthesis of Relay Circuits - 6.

Mikhailov, N. N. Electrical Devices for Solving Algebraic Equations - 472.

Mikhailov, N. N. Plotting of Root Loci of Automatic Control Systems - 640.

Mikutskii, G. V., Analysis of Various Designs for Broad-Band Tuning of High-Frequency Wave-Traps -683.

Minina, O. M., see Krug, E. K. - 8.

Mitiushkin, K. G., see Zhozhikashvili, V. A. - 57.

Monastyrshin, G. I. Mathematical Simulation of Dry Fiction - 2.

Moskatov, G. K. List of Foreign Literature on the Theory of Relay Devices During 1956 - 971.

Moskatov, G. K. and V. M. Ostianu. All-Union Conference on the Theory of Relay Operating Devices - 874.

Nadzhafov, E. M., see Ivlichev, Iu. I. - 977.

Naumov, B. N., see Letov, A. M. - 179.

Novikov, A. I., see Il'in, V. A. - 741.

Ostianu, V. M. ,see G. K. Moskatov . - 874.
Ostrovskii, G. M. Increasing the Speed of Certain Automatic Control Systems by Means of Nonlinear and Computing Devices - 199.

Perel'man, L. I. Control Based on the Principle of a Self-Adjusting Program - 797.
Petelin, D. P. Stability of An Independent Voltage and Frequency Automatic Control of a Single Synchronous Generator - 844.
Pikus, G. E. , and O. V. Sorokin. A Nonlinear Semiconductor of Resistance Sensitive to Magnetic Fields - 177.
Polonnikov, , D. E. Input Circuits of Contact-Modulated Amplifiers - 572.
Polonnikov, D. E. Automatic Zero Drift Compensation in Electrometric Amplifiers - 661.
Popov, Vasile-Mikhai. Relaxing the Sufficiency Conditions for Absolute Stability - 1.
Pozin, N. V. Concerning the Noise Stability of Pulse-Frequency Telemetry - 948.
Pugachev, V. S. The Determination of an Optimal System by Some Arbitrary Criterion - 513.
Pul'er, Iu. M., see Aven, O. I. - 261.
Pusset, L. A. Synchronous Reactive Motor Speed Regulation in Systems of Precise Magnetic Recording - 565.

Raikhel', N. L. The Calculation of Transient Responses in Coordinated Automatic Control Systems - 994.
Rosenman, E. A. On the Limiting Speed of Action of Servosystems with Power. Moment and Rate Limitations on the Executive Elements - 610.
Rozenblat, M. A. Dynamic Characteristics of Cores with Rectangular Static Hysteresis Loops (Influence of Eddy Currents) - 66.
Rozenblat, M. A. Static Characteristics of Toroidal Cores as a Function of Their Geometric Dimensions - 771.
Rozenblat, M. A., see Kerbnikov, F. I. - 819.
Rozenvasser, E. N. On the Stability of Nonlinear Control Systems Described by Fifth and Sixth Order Differential Equations - 91.
Rubtsov, V. A. Concerning the Equivalence of Pulse and Continuous-Data Control Systems - 926.
Rusevich, I. M. Conference on Automatic Control and Computer Technique-182.
Rutkovskii, V. Iu. Analysis of Free Oscillations About Its Center of Gravity of a Neutral Plane without Damping of Its Own and with a Relay Autopilot - 430.
Safris, L. V. The Transients in a Magnetic Amplifier Connected Via a Rectifier to an Inductive Load - 220.
Sagalovich, Iu. L., see Lazarev, V. G. - 457
Segalin, V. G., An Analytical Formulation of the Synthesis Problem of Corrective Devices in Linear Servosystems - 137.
Semikova, A. I. Scientific Seminar on Pneumo-Hydraulic Automata - 968.
Shastova, G. A., see Kashirin, V. A. - 746.
Shestakov, V. I. A Punched Card Method for Synthesizing Sequential Relay Systems - 581.
Shigin, E. K. On Improving the Transient Response of Correcting Links with Variable Parameters - 299.
Shirokorad, B. V. Concerning the Existence of a Cycle Beyond the Absolute Stability Conditions of a Three Dimensional System - 933.
Shumilovskii, N. S. , see Makarov, I. M. - 487.
Sinitskii, L. A., see Karandeev, K. B. - 869.
Smolov, V. B. An Operational Amplifier with a Differential Input - 7.
Smyrova, N. A. Additions to the Table of Optimal Characteristics Given by Solodovnikov and Matveev - 370.
Solodov, A. V. Conversion of Output Initial Conditions in a Linear System with Variable Parameters -633.
Solodov, A. V. Statistical Investigation of Nonstationary Processes in Linear Systems by Means of Inverse Simulating Devices - 305.
Sorokin., O. V. see Pikus, G. E. - 177.
Sotskov, B. S. External Dimensions of Electromagnetic Components - 830.
Stakhovskii, R. I. Twin-Channel Automatic Optimalizer - 729.
Subbotina, G. V. see Boiarchenkov, M. A. - 602.
Subbotina, G. V. List of Existing Literature on Magnetic Amplifiers and Contactless Magnetic Components - 373.

Taft, V. A. Stability of Periodic Conditions in Automatic Control Systems Found Approximately on the Basis of a Filter Hypothesis - 550.
Tikhonov, V. I. Fluctuation Action in the Simplest Parametric Systems - 705.
Tikhonov, V. I., see Amiantov, I. N. - 318.
Trefilova, I. ,S. see Boiarchenkov, M. A. - 602.
Tsypkin, Ia. Z. Sampled-Data Systems with Extrapolating Devices - 383.
Turbin, B. G., see Krassov, I. M. - 210.

Udalov, N. P. Stabilization of Temperature of Operating Substance in Thermistors - 1042.
Urman, E. L. The Transfer Function of a dc Motor Controlled by Varying the Excitation Voltage - 596.

Valdenberg, Iu. S. A Method of Solving a Particular Class of Integral Equations by Casing Computers - 712.

Varpakhovkii, F. L. and R. A. Lipman. Contactless Relay with Transistors - 1004.

Vasil'ev, R. R. Efficiency of Using Frequency Bands in Telemetering - 1039.

Vasil'ev, V. G., Evaluation of the Accuracy of Input Reproduction for Linear Servos and Recording Systems - 21.

Vasil'ev, V. G. On the Relationships Between the Error Coefficients and the Amplitude and Phase Characteristics of Linear Reproducing Systems - 469 L.

Velershtein, R. A., and A. A. Fel'dbaum Development of an Almost Optimal System by Means of an Electron Analog - 808.

Vertsaizer, A. L., and V. M. Iakovlev. On Essential Inadequacies of the Definitions and Terminology of Automatic Control - 85.

Vitenberg, M. I. Determination of Heating of Electromagnetic Relay Windings -1012.-

Volodin, V. S. see Boiarchenkov, M. A. - 602

Volchkov, K. S., Some Optimal Relationships in Ideal AC-Controlled Magnetic Amplifiers. - 76.

Zhozhikashvili, V. A., and K. G. Mitiushkin, Relay Phenomena in Loop Circuits Containing Magnetic Cores with Rectangular Hysteresis Loops - 57.

AUTOMATION AND REMOTE CONTROL

VOLUME 19, NUMBER 1 JANUARY, 1958

CONTENTS

	PAGE	RUSS. PAGE
Relaxing the Sufficiency Conditions for Absolute Stability. Vasile-Mikhai Popov	1	3
Optimal Transients in an Automatic Control System Having a Bounded Regulator Unit. E. K. Krug and O. M. Minina	8	10
Evaluation of the Accuracy of Input Reproduction for Linear Servos and Recording Systems. V. G. Vasil'ev	21	26
The Problem of Synthesizing Linear Dynamic Systems with Variable Parameters. A. M. Batkov	42	49
Telemetering Systems with Pulse-Code Modulation. G. V. Burdenkov	49	55
Relay Phenomena in Loop Circuits Containing Magnetic Cores with Rectangular Hysteresis Loops. V. A. Zhozhikashvili, K. G. Mitiushkin	57	64
Dynamic Characteristics of Cores with Rectangular Static Hysteresis Loops (Influence of Eddy Currents). M. A. Rozenblat	66	75
Some Optimal Relationships in Ideal AC-Controlled Magnetic Amplifiers. K. S. Volchkov	76	85
Critique		
On Essential Inadequacies of the Definitions and Terminology of Automatic Control. A. L. Vertsaizer, V. M. Iakovlev	85	95
Chronicle		
Conference on Electrical Contacts. I. E. Dekabrun	89	99

AUTOMATION AND REMOTE CONTROL

VOLUME 19, NUMBER 2 FEBRUARY 1958

CONTENTS

	PAGE	RUSS. PAGE
On The Stability of Nonlinear Control Systems Described by Fifth and Sixth Order Differential Equations. E. N. Rozenvasser	91	101
On The Theory of One-Relay Systems. V. S. Boiarinov and N. N. Leonov	103	114
Determination of Parameters for Corrective Devices in Linear Servosystems Using Given Generalized Parameters. M. M. Kreimerman	124	135
An Analytical Formulation of the Synthesis Problem of Corrective Devices in Linear Servosystems. V. G. Segalin	137	148
An AC Bridge With Self-Balancing In Two Parameters. V. Iu. Kneller	156	162
Frequency Methods of Remote Control For Distributed Objects. V. A. Il'in and K. P. Kurdiukov	167	174
Letters to the Editor		
A Nonlinear Semiconductor of Resistance Sensitive to Magnetic Fields. G. E. Pikus and O. V. Sorokin	177	187
Chronicle		
The International Federation of Automatic Control (IFAC). A. M. Letov and B. N. Naumov	179	189
Conference on Automatic Control and Computer Technique. I. M. Rusevich	182	191
Errata	186	195

AUTOMATION AND REMOTE CONTROL

Volume 19, Number 3 March, 1958

CONTENTS

	PAGE	RUSS. PAGE
Analysis of Properties and Synthesis of Automatic Control Systems with Lag. Fan Chun-Wui	187	197
Increasing the Speed of Certain Automatic Control Systems by Means of Nonlinear and Computing Devices. G. M. Ostrovskii	199	208
Concerning a Possibility of Determining an Axial Hydrodynamic Force in a Valve. I. M. Krassov, and B. G. Turbin	210	217
The Theory of the Structure of Combiner Mechanisms. S. M. Iakovlev	214	221
The Transients in a Magnetic Amplifier Connected Via A Rectifier to an Inductive Load. L. V. Safris	220	228
The Calculation of a Choke Magnetic Amplifier Connected to a Single-Phase Bridge Rectifier. N. A. Kaluzhnikov	231	239
Contactless Determination of Specific Electrical Resistance. G. G. Iarmol'chuk	250	257
A Linear Induction Potentiometer for Industrial Use. O. I. Aven, S. M. Domanitskii, and Iu. M. Pul'er	261	268
Telemetering Compensation Device for Linear Transference. A. A. Kol'tsov and L. F. Kulikovskii	274	280

AUTOMATION AND REMOTE CONTROL

Volume 19, Number 4 April 1958

CONTENTS

	PAGE	RUSS. PAGE
Graphico-Analytic Method for Determining Relay System Characteristics. L. P. Kuz'min	277	285
Concerning a Method for Analyzing Sampled-Data Systems. Fan Chun-Wui	288	296
On Improving the Transient Response of Correcting Links with Variable Parameters. E. K. Shigin	299	306
Statistical Investigation of Nonstationary Processes in Linear Systems by Means of Inverse Simulating Devices. A. V. Solodov	305	312
The Influence of Fluctuations on the Operation of an Automatic Range-Finder. I. N. Amiantov and V. I. Tikhonov	318	325
Determination of System Parameters from Experimental Frequency Characteristics. A. A. Kardashov and L. V. Karniushin	327	334
Optimal Frequency Deviation in One-Channel Telemetering System. Iu. I. Chugin	339	346
A Selective Low-Frequency RC-Amplifier as a Control System Element. Iu. G. Kochinev	349	355
Phase Detector for Multiple Frequencies. R. Ia. Berkman	355	360
Concerning Some Properties of Ferromagnetic Clutches. P. N. Kopai-Gora	361	366
Additions to the Table of Optimal Characteristics Given by Solodovnikov and Matveev. N. A. Smyrova	370	376
Bibliography		
List of Existing Literature on Magnetic Amplifiers and Contactless Magnetic Components	373	379

AUTOMATION AND REMOTE CONTROL

Volume 19, Number 5 May, 1958

CONTENTS

	PAGE	RUSS. PAGE
Sampled-Data Systems with Extrapolating Devices. Ia. Z. Tsypkin	383	389
A Way of Forming Transfer Functions of Sampled-Data Control Systems with Extrapolating Devices. S. S. Ermakov and E. M. Eslpovich	395	401
An Analytical Method of Synthesis of Linear Control Systems in the Presence of Interference and with a Specified Dynamic Accuracy. K. I. Kurakin	402	408
The Influence of Linear Zones and Regions of Saturation on the Dynamics of Two-Stage Servomechanisms. N. S. Gorskaia	413	418
Analysis of Free Oscillators About Its Center of Gravity of a Neutral Plane Without Damping of Its Own and with a Relay Autopilot. V. Iu. Rutkovskii	430	435
Electromechanical Calculating Device. V. V. Gorskii.	442	448
Circular Transmission of Remote Control Signals with a Combinatorial Method of Choice. K. P. Kurdiukov	450	456
Concerning One Type of Commutation Circuit. V. G. Lazarev and Iu. L. Sagalovich	457	464
The Application of a Thermoelectric Proportional-Plus-Integral Corrective Device for Improvement of Two-Position Temperature Control. A. A. Kampe-Nemm	461	468
Improving the Quality of Two-Position Control. A. I. Cherepanov	464	471
Letters to the Editor		
On the Relationships Between the Error Coefficients and the Amplitude and Phase Characteristics of Linear Reproducing Systems. V. G. Vasil'ev	469	475
Review		
Electrical Devices for Solving Algebraic Equations. N. N. Mikhailov	472	477
Chronicle		
National Conference at Bucharest on the Question of Automation of Production	487	491
Bibliography of the Literature on Questions of Mathematical Simulation (on Analog Computing Machines) From 1956	498	493

AUTOMATION AND REMOTE CONTROL

Volume 19, Number 6 June 1958

CONTENTS

	PAGE	RUSS. PAGE
For the Increase of Complex Mechanization and Automation of Production	511	517
The Determination of an Optimal System by Some Arbitrary Criterion. V. S. Pugachev	513	519
Dynamics of a Relay-Type Electric Servomechanism With A Load Varying Proportionally To The Motion. N. S. Gorskaia	533	540
Stability of Periodic Conditions in Automatic Control Systems Found Approximately On The Basis of a Filter Hypothesis. V. A. Taft	550	558
A Method of Analyzing and Calculating Transient Processes in Automatic Control of Generator Excitation by Means of a Magnetic Amplifier. V. R. Kulikov	556	564
Synchronous Reactive Motor Speed Regulation in Systems of Precise Magnetic Recording. L. A. Pusset	565	574
Input Circuits of Contact-Modulated Amplifiers. D. E. Polonnikov	572	582
A Punched Card Method for Synthesizing Sequential Relay Systems. V. I. Shestakov	581	592
On The Stability of Periodic Regimens in Nonlinear Systems with Piecewise Linear Characteristics. M. A. Aizerman and F. R. Gantmakher	593	606
The Transfer Function of a DC Motor Controlled by Varying The Excitation Voltage. E. L. Urman	596	609
Chronicle		
All-Union Conference on Magnetic Elements in Automation, Remote Control, and Computing Technology	602	614

AUTOMATION AND REMOTE CONTROL

Volume 19, Number 7 July 1958

CONTENTS

	PAGE	RUSS. PAGE
Synthesis of High-Speed Automatic Control System Structures. M. V. Meerov	611	621
On the Limiting Speed of Action of Servo Systems with Power, Moment and Rate Limitations on the Executive Elements. E. A. Rozenman	622	633
Conversion of Output Initial Conditions in a Linear System with Variable Parameters into an Equivalent Input Signal. A. V. Solodov	645	654
Plotting of Root Loci of Automatic Control Systems. N. N. Mikhailov	652	661
An Analog Computer Realizing Conformal Mapping for an n-th Order Polynomial. V. A. Brik and . A. Ginzburg	664	674
Automatic Zero Drift Compensation in Electrometric Amplifiers. D. E. Polonnikov	673	684
Electric Methods of Frequency Control for Stable RC-Generators. V. P. Demeshin	683	695
Analysis of Various Designs for Broad-Band Tuning of High-Frequency Wave-Traps. G. V. Mikutskii	695	708

AUTOMATION AND REMOTE CONTROL

Volume 19, Number 8 August 1958

CONTENTS

	PAGE	RUSS. PAGE
Fluctuation Action in the Simplest Parametric Systems. V. I. Tikhonov	705	717
A Method of Solving A Particular Class of Integral Equations by Casing Computers. Iu. S. Val'denberg	712	725
Automatic Optimalizer. A. A. Fel'dbaum	718	731
Twin-Channel Automatic Optimalizer. R. I. Stakhovskii	729	744
New Principles of Constructing Telemetry Systems With Pulse-Time and Pulse-Width Modulation. V. A. Il'in and A. I. Novikov	741	757
Noise Stability of Telemetry Signal Transmission on Channels With Noise Fluctuations. V. A. Kashirin and G. A. Shastova	746	762
Linear Transformations of Binary Codes. N. Ia. Matiukhin	759	776
Static Characteristics of Toroidal Cores as a Function of Their Geometric Dimensions. M. A. Rozenblat	771	788
Some Problems in the Design of An Asynchronous Clutch With A Monolithic Rotor. T. A. Glazenko	783	800
Chronicle		
Coordination Conference On An Automated Electrical AC Actuator With A Self-Contained Supply	791	809
Errata	795	812

AUTOMATION AND REMOTE CONTROL

Volume 19, Number 9 September 1958

CONTENTS

	PAGE	RUSS. PAGE
Control Based on the Principle of a Self-Adjusting Program. I. I. Perel'man	797	813
Development of An Almost Optimal System By Means of An Electronic Analog. R. A. Velenshtein and A. A. Fel'dbaum	808	824
Magnetic Modulators With Perpendicularly Superposed Magnetic Fields. F. I. Kerbnikov and M. A. Rozenblat	819	836
External Dimensions of Electromagnetic Components. B. S. Sotskov	830	849
Synthesis of Step-By-Step Selector Circuits. G. Ioanin	835	855
Stability of An Independent Voltage and Frequency Automatic Control of A Single Synchronous Generator. D. P. Petelin	844	864
Coding and Decoding Devices in Pulse-Code Telemetering Systems. Ia. A. Kupershmidt	858	879
Selectivity of Rectifying Measuring Devices. K. B. Karandeev and L. A. Sinitskii	869	892
Chronicle		
All-Union Conference On The Theory Of Relay Operating Devices	874	896

AUTOMATION AND REMOTE CONTROL

Volume 19, Number 10 October, 1958

CONTENTS

	PAGE	RUSS. PAGE
Transient and Steady-State Processes in an Automatic Range Indicator. Part. I. Description of the Device's Functioning and Use of the Apparatus of Step Functions in the Analysis of Indicator Processes. F. M. Kilin	881	901
On Servo Systems Containing Two Pulse Elements with Unequal Repetition Periods. Fan Chun-Wui	897	917
Determination of Periodic Behavior of Automatic Control Systems Containing a Nonlinear Element With Broken-Line Characteristic. L. A. Gusev	911	931
Concerning the Equivalence of Pulse and Continuous-Data Control Systems. V. A. Rubtsov	926	945
Concerning the Existence of a Cycle Beyond the Absolute Stability Conditions of a Three Dimensional System. B. V. Shirokorad	933	953
Concerning the Noise Stability of Pulse-Frequency Telemetry. N. V. Pozin	948	968
A Single-Cycle Magnetic Shift Register. A. Ia. Artiukhin and V. Z. Khanin	957	977
Chronicle		
Scientific Seminar on Pneumo-Hydraulic Automata	968	988
Bibliography		
List of Foreign Literature on the Theory of Relay Devices During 1956	971	992

AUTOMATION AND REMOTE CONTROL

Volume 19, Number 11 November 1958

CONTENTS

	PAGE	RUSS. PAGE
A Universal Pneumatic Multiplier-Divider and a Square-Root Extractor. Iu. I. Ivlichev and E. M. Nadzhafov.	977	997
Determination of the External Characteristic and Calculation of Parameters of a Hydraulic Compensation Regulating Unit. V. M. Dvoretskii	989	1010
The Calculation of Transient Responses in Coordinated Automatic Control Systems. N. L. Raikhel'	994	1016
Contactless Relay With Transistors. F. L. Varpakhovskii and R. A. Lipman	1004	1027
Determination of Heating of Electromagnetic Relay Windings. M. I. Vitenberg	1012	1036
The Probability of Defective Elements in Automatic Control Systems. S. M. Kuznetsov	1023	1048
On the Number of Reserve Sections. V. G. Druzhinin	1035	1062
Efficiency of Using Frequency Bands in Telemetering. R. R. Vasil'ev	1039	1066
Stabilization of Temperature of Operating Substance in Thermistors. N. P. Udalov	1042	1070
Logarithmic Method of Plotting Real Frequency Response of an Automatic Control System. V. A. Atsiukovskii	1045	1073

AUTOMATION AND REMOTE CONTROL

Volume 19, Number 12 December 1958

CONTENTS

	PAGE	RUSS. PAGE
A Theory For Determining Optimum Dynamic Systems. N. I. Andreev	1049	1077
Mathematical Simulation of Dry Friction. G. I. Monastyrshin	1063	1091
Choice of a Power Unit For An Optimum Automatic Control System. L. N. Fitsner	1077	1107
Calculation of Time Characteristics of Pneumatic Flow Chambers. V. N. Dmitriev and V. I. Chernyshev	1087	1118
Emergency Connection of Lamps. B. S. Sotskov	1096	1126
Simplified Algebraic Synthesis of Relay Circuits. Ia. I. Mekler	1099	1129
An Operational Amplifier With A Differential Input. V. B. Smolov	1115	1145
Bibliography		
List of Soviet and Translated Literature for 1957 On The Theory of Relay Operating Devices	1121	1150